PATENT ABSTRACTS OF JAPAN

(11)Publication number:

10-255863

(43)Date of publication of application: 25.09.1998

(51)Int.Cl.

H01M 14/00

H01L 31/04

(21)Application number: **09-072809**

(71)Applicant: CENTRAL RES INST OF

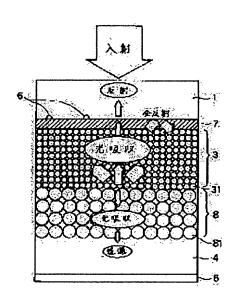
ELECTRIC POWER IND

(22)Date of filing:

11.03.1997

(72)Inventor: USAMI AKIRA

(54) SENSITIZED PIGMENT SOLAR BATTERY



(57) Abstract:

PROBLEM TO BE SOLVED: To improve conversion efficiency which is represented with the ratio of battery power to incident light quantity.

SOLUTION: This solar battery is constituted by forming an electrode 6 at the back surface of a glass substrate 1, forming a light absorption particle layer 3 formed out of accumulated semiconductor fine grains 31 which attracts pigment, at the lower surface of the electrode 6, forming an electrolyte part 4 at the lower surface of the electrode 6 including the light absorption particle layer 3, and forming an opposite electrode 5 at the lower surface of the electrolyte part 4. A high refraction material membrane 7 is formed between the electrode 6 and the light absorption particle layer 3, and a high reflection particle layer 8 which is formed out of accumulated high refraction material particles 81

whose diameter is controlled is formed at the lower surface of the light absorption particle layer 3.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of

rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]